

Carbon Sequestration on Surface Mine Lands

Quarterly Report

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ABSTRACT

A major effort this quarter was to continue the evaluation of the inventory data in preparation for the submission of the final report. The hydrologic quantity and quality are continuously monitored and quantified. Much effort was also expended in preparing technical presentations for professional meeting and for the preparation of the final project report.

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INTRODUCTION

EXECUTIVE SUMMARY

The first quarter of this year was dedicated to inventory and data assessment. Annual evaluations were also made to determine the soil density and compaction changes associated with each research area. Such data is necessary to correlate with tree survival and growth. This information is also vital information in the determination of water infiltration rates. Hydrologic monitoring for quantity and quality remain a continuous activity.

This is also the period that is very active for preparation and presentation of research papers for professional societies and associations. The group conducted one major field trip, and made eight professional presentations.

EXPERIMENTAL

Research as described in previous reports continue and are generating data for analysis which has been the major activity involved by each team member during the this quarter of the calendar year (January, February, March). Results of these analyses will be presented in an annual report that is currently in process.

RESULTS AND DISCUSSION

The analysis and discussion of the research areas will be presented in the annual report presently in preparation.

CONCLUSIONS

No conclusions are presented at this time as data analyses are currently incomplete, yet early indications are that the systems being used result in greatly improved water quality with little or no surface run off and erosion. The growth rates and survival are also greatly enhanced.